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## CHECKLIST #0135 FOR THE APPROVAL OF: METAL ROOF SYSTEMS (STRUCTURAL)

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- ☐ Basic Requirements Checklist.
- ☐ One set of the manufacturer's 'approval document' including:
  - a. Details of all sections with dimensions and thickness,
  - b. Assembly details including connections at eaves, ridges and seam, and
  - c. Fastener diagram.
- ☐ Calculations verifying all data as follow:
  - a. Deflections shall not exceed  $L/240$ ,
  - b. Physical properties of the roof panel derived from the test data,
  - c. Fasteners spacing and size, and
  - d. Provision for diaphragm action shall be indicated.
- ☐ One set of manufacturer's design drawings marked and verified by the testing laboratory.

**The following current laboratory tests and test reports in compliance with protocol TAS 301.**


- ☐ Accelerated Testing of coating for 2000 hours per ASTM G23.
- ☐ Salt Spray Testing of coating for 1000 hours per ASTM B117.
- ☐ Uniform static air positive & negative pressure difference per TAS 125-03. See note #2.
- ☐ Wind Driven Rain Test per TAS100-95 for slopes 2:12 and greater or FM4471 App. G for slopes less than 2:12. If system is to include a valley assembly TAS100-95 shall be required in addition to FM4471 App. G. See note # 3.
- ☐ Impact test per TAS201-94. Only for thickness less than 22 gage.

**Notes:**

1. System must be tested with the same approved fastener; no change in configuration washer and/or diameter will be accepted.
2. Calculated corner pressure and corresponding panel span shall be verified with an uplift test on one specimen following TAS125-03.
3. If system approval is to include horizontal joints, two horizontal joints shall be incorporated in TAS100-95 and one horizontal joint in FM4471 App. G of the test specimens.

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